

KHROMOV, -BORISOV, N.V.; KARLINSKAYA, R.S.

Synthesis and conversion of pyrimidine derivatives. Part 9:
Sulfoderivatives of cytosine, 4-methylcytosine and uracil.
Zhur. ob.khim. 27 no.9:2518-2521 S '57. (MIRA 11:3)
(Cytosine) (Uracil)

TORF, S.F.; KHROMOV-BORISOV, N.V.

Hexamethylbenzyl-trimethylammonium salts (hexonium and hexonium B).
Med.prom. 12 no.2:18-21 F '58. (MIRA 11:3)

1. Institut eksperimental'noy meditsiny AMN SSSR
(AMMONIUM COMPOUNDS)

~~KHROMOV-BORISOV, N.V., YANOVITSKAYA, A.M., MIKHAIL'SON, M.Ya.~~

~~Merpanite (methylsulfomethylate of the diethylaminoethyl ester
of 1-phenylcyclopentane-1-carboxylic acid). Med.prom. 12 no.6
43-44 Je '58 (MIRA 11:7)~~

~~1. Pervyy Leningradskiy meditsinskiy institut imeni akademika
I.P. Pavlova.
(CARAMIPHEN)~~

TORF, S.P.; KHROMOV-BORISOV, N.V.

Diphensuccinden and 2,6-dioxydiphenesuccindan. Zhur.ob.khim. 28
no.9:2452-2458 S '58. (MIRA 11:11)

1. Institut eksperimental'noy meditsiny AMN SSSR.
(Indenoindene)

KUDRYASHOVA, N.I.; KIRCHOV-BORISOV, N.V.

Synthesis of xycaine. Med.prom. 19 no.7:32-35 J1 '59.
(MIRA 12:10)

1. Institut eksperimental'noy meditsiny AMN SSSR.
(XYCAINE)

5(3)
AUTHORS:

Kudryashova, N. I., Remizov, A. L., Khromov-Borisov, N. V.

TITLE:

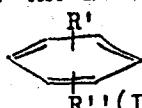
Arylamides of Dialkylamino Acetic Acids (Arilamidy dialkilaminouksusnykh kislot)

PERIODICAL:

Zhurnal obshchey khimii, 1959, Vol 29, Nr 4, pp 1240-1244 (USSR)

ABSTRACT:

In the article under review the authors describe the synthesis of the above arylamides of the general formula (I)



$\text{NHCOCH}_2\text{NR}_2$, as well as the data concerning the

determination of the dissociation constants of these compounds. It was interesting to note to what extent the pharmacological activity of these compounds (I) depends on the quantity, position, and nature of the radicals R' and R'' in the benzene nucleus and in what way a change in the structure of the dialkylamino group NR_2 affects the compounds. The substituents for R' and R'' were H, CH_3 , NO_2 , NH_2 , $\text{N}(\text{CH}_3)_2$; the diethylamino- and piperidine radicals were used as dialkylamino groups for NR_2 .

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Arylamides of Dialkylamino Acetic Acids

SOV/79-29-4-45/77

The synthesis took place in two stages (Scheme). The initial aromatic amines (IV) were aniline, o- and p-toluidine, m-4- and m-2-xylidine, p-nitroaniline, and dimethyl-p-phenylenediamine. The amides of monochloroacetic acid (V) obtained from them were caused to react in the second stage with diethylamine and piperidine. The bases synthesized by this method passed to hydrochlorides and methiodides. The dissociation constants of the compounds obtained were determined and compared with their pharmacological activity. There were no indications that the pharmacological activity might be a direct function of the basicity of these compounds. Xycaine and isoxycaine (Nr 5 and Nr 4 in table 2) are being examined clinically. In table 1 all synthesized compounds are listed. There are 2 tables and 10 references 3 of which are Soviet.

ASSOCIATION: Institut eksperimental'noy meditsiny Akademii meditsinskikh nauk SSSR (Institute of Experimental Medicine of the Academy of Medical Sciences, USSR)

SUBMITTED: March 12, 1958
Card 2/2

5(3)

SOV/79-29-6-24/72

AUTHORS: Kudryashova, N. I., Davidenkov, L. R., Khromov-Borisov, N. V.

TITLE: Synthesis of 2-(3',4',5'-Trimethoxy-benzyl)-benzimidazole
(Sintez 2-(3',4',5' -trimetoksibenzil)-benzimidazola)PERIODICAL: Zhurnal obshchey khimii, 1959, Vol 29, Nr 6,
pp 1885 - 1888 (USSR)

ABSTRACT: Subject of the present paper is the synthesis of the above-mentioned compound (III) which is a trimethoxy-derivative of the well-known drug Dibazol (2-benzyl-benzimidazole). This synthesis was easily carried out by the authors by condensation of o-phenylene diamine (I) with 3,4,5-trimethoxy-phenyl-acetic acid (II) (Scheme 1). Most difficult was the synthesis of the acid (II) since so far no convenient synthesis method was suggested. It was carried out according to scheme 2. The initial product was the gallic acid (IV) which was methylated to (V). (V) was transformed into the methyl ester (VI). From the hydrazide of this ester (VII) resulted (VIII) on oxidation with potassium ferricyanide. On condensation of this aldehyde with hippuric acid the corresponding azolactone (IX) was obtained which was subjected to hydrolysis, oxidation with H_2O_2 , and esterification. All these processes took place without separation of the intermediates. The

Card 1/2

Synthesis of 2-(3',4',5'-Trimethoxy-benzyl)-benzimidazole SOV/79-29-6-24/72

mixture obtained in this way from the methyl esters of the trimethoxy-phenyl-acetic acid and benzoic acid was easily separated by vacuum distillation. By saponification of methyl-trimethoxy-phenyl-acetate the acid (II) was obtained. Its synthesis was carried out smoothly in spite of the many steps and does not require any difficultly accessible reagents. The condensation of (II) with o-phenylene diamine (I) also proceeds smoothly at 180° in equimolar quantities. The preliminary pharmacological investigation of the end product (III), carried out by O. D. Kozlov, showed that this preparation, like Dibazol, has a certain hypotensive and spasmolytic effect. There are 7 references, 3 of which are Soviet.

ASSOCIATION: Institut eksperimental'noy meditsiny Akademii meditsinskikh nauk SSSR (Institute of Experimental Medicine of the Academy of Medical Sciences, USSR)

SUBMITTED: May 20, 1958

Card 2/2

SOV/79-29-8-46/81

5(3)

AUTHORS:

Khromov-Borisov, N. V., Yanovitskaya, A. M.

TITLE:

Synthesis of Some Acyl Derivatives of Phenothiazine. I.
Glycine- and α -Alanine Derivatives Containing Quaternary Nitro-
gen Atoms

PERIODICAL: Zhurnal obshchey khimii, 1959, Vol 29, Nr 8, pp 2663-2667 (USSR)

ABSTRACT: The phenothiazine derivatives with different substituents on
the nitrogen of the thiazine ring have recently aroused con-
siderable interest, especially the compounds (I) and (II)
which exhibit a high cholinolytic activity. In the present
paper, the syntheses and properties of the new compounds of
type (III) are described. They are salts of the quaternary
ammonium bases; at R''=H, these compounds are derivatives of
the substituted glycine, at R''=C₂H₅, they are derivatives
of α -alanine (d,l). As alkyl radicals, which are combined with
the quaternary nitrogen, the methyl- and ethyl radicals were
introduced in which R' = CH₃ or C₂H₅, R = C₂H₅. The synthesis
of these compounds was carried out according to the follow-
ing scheme: by reaction of the phenothiazine with the acid

Card 1/3

Synthesis of Some Acyl Derivatives of Phenothiazine. SOV/79-29-8-46/81
I. Glycine- and α -Alanine Derivatives Containing Quaternary Nitrogen Atoms

chloride of the chloroacetic acid or, accordingly, with the acid bromide of the α -bromo-propionic acid, the α -halogenacyl derivative of phenothiazine resulted in which the diethylamino group was substituted for the halogen by means of excess diethylamine. The resultant diethylamino-acetyl-phenothiazine was allowed to react with methyl iodide, dimethyl sulfate, or ethyl iodide. The compounds obtained in this way were either iodides (III, X=J) or methyl sulfates (III, X=CH₃SO₄) of the corresponding quaternary ammonium derivatives. The characteristic and different features of the compounds (III) as well as of the salts of the tertiary amines are given in the table. The hydrochloride of the 10-diethylamino-acetyl-phenothiazine is used in medical practice under the name of "diphazine". The methylsulfone-methylate of 10-diethylamino-acetyl-phenothiazine, under the name of "mephazine", is now being clinically tested, and seems to be rather promising. There are 1 table and 3 references, 1 of which is Soviet.

Card 2/3

Synthesis of Some Acyl Derivatives of Phenothiazine. SOV/79-29-8-46/81
I. Glycine- and α -Alanine Derivatives Containing Quaternary Nitrogen Atoms

ASSOCIATION: 1-y Leningradskiy meditsinskiy institut imeni I. P. Pavlova
(Leningrad First Medical Institute imeni I. P. Pavlov)

SUBMITTED: July 5, 1958

Card 3/3

SOV/79-29-8-47/8:

5(3)

AUTHORS:

Khromov-Borisov, N. V., Yanovitskaya, A. M.

TITLE:

Synthesis of Some Acyl Derivatives of Phenothiazine. II. Derivatives of the β -Dialkyl-amino Isobutyric Acid

PERIODICAL:

Zhurnal obshchey khimii, 1959, Vol 29, Nr 8, pp 2667-2671 (USSR)

ABSTRACT:

In a previous paper (Ref 1), a number of phenothiazine derivatives were described in which the nitrogen of the phenothiazine-hetero-ring is combined with the radicals of the diethylamino-acetic acid (I) and the α -diethylamino propionic acid (II). In the present paper, the synthesis and properties of the phenothiazine derivatives are described which contain the following more complicated acyl radicals: the β -diethyl-amino isobutyryl-(III) and β -(N-piperidino)-isobutyryl radical (IV). These phenothiazine derivatives correspond with the compounds (V) and (VI) which are of pharmacological importance (Ref 2). The syntheses were carried out according to the given scheme: as secondary amines (HNR_2), diethyl amine and piperidine, as $\text{R}'\text{X}$ for the formation of the tertiary and quaternary salts, benzoic acid and methyl- and ethyl iodide were used. The methacrylyl-10-phenothiazine (VIII) resulted, on heating for three hours of phenothiazine (VII), with the acid chloride of the methacrylic acid in benzene

Card 1/2

Synthesis of Some Acyl Derivatives of Phenothiazine. SOV/79-29-8-47/81
II. Derivatives of the β -Dialkyl-amino Isobutyric Acid

solution. On reaction of (VIII) with diethyl amine or piperidine, β -diethylamino isobutyryl-10-phenothiazine, or compound (IX), were obtained. The slowly crystallizing, liquid bases were converted into the salts (X). Some of the preparations obtained are highly active local anesthetics. On the whole, 13 compounds were synthesized which had hitherto not been described. The resultant preparations were subjected to a pharmacological investigation performed by Ye. A. Spalva. There are 1 table, 3 references, 1 of which is Soviet.

ASSOCIATION: 1-y Leningradskiy meditsinskiy institut imeni I. P. Pavlova
(Leningrad First Medical Institute imeni I. P. Pavlov)

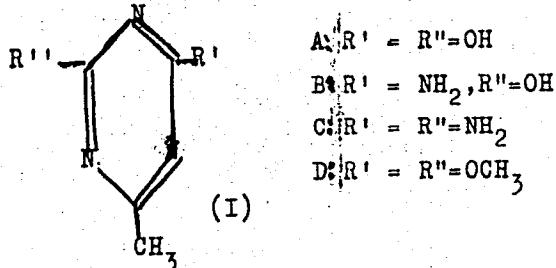
SUBMITTED: July 5, 1958

Card 2/2

5(3)

SOV/79-29-9-44/76

AUTHORS: Khromov-Borisov, N. V., Kisareva, Ye. V.

TITLE: Investigation of the Degree of Activity of the Methyl Group in
the Derivatives of the Symmetrical Methyl Triazine. I. Condensa-
tion With AldehydesPERIODICAL: Zhurnal obshchey khimii, 1959, Vol 29, Nr 9,
pp 3010 - 3019 (USSR)ABSTRACT: In order to investigate the mobility of hydrogen atoms of the
methyl group in various symmetrical methyl triazine derivatives
(I), the condensations of these compounds with aldehydes were
carried out in the present paper.

Card 1/3

SOV/79-29-9-44/76
Investigation of the Degree of Activity of the Methyl Group in the Derivatives of the Symmetrical Methyl Triazine. I. Condensation With Aldehydes

In continuation of previous, similar papers (Ref 1) the following triazines were investigated: dioxy-(I A), amino oxy-(I B), diamino-(I C), and dimethoxymethyl triazine(I D). The aldehydes used for this purpose were: benzaldehyde, ortho-, meta-nitro-, and para-dimethylamino benzaldehyde. In the reaction of the symmetrical methyl triazine derivatives which contain OH- and NH₂-groups in the even-numbered positions of the cycle, with p-dimethylamino benzaldehyde, all methyl triazines investigated entered condensation and yielded the corresponding dimethyl-amino styryl derivatives of symmetrical triazine. A hydrolysis of the two methoxy groups occurs simultaneously with the condensation in the reaction of dimethoxymethyl triazine with p-dimethylamino benzaldehyde in acid medium. When heated in alkaline medium, the condensation is accompanied by an intra-molecular re-grouping. The hydrochloric acid salts and the corresponding bases of 2,6-dioxy-, 2-amino-6-oxy-, and 2,6-diamino-4-(p-dimethylaminostyryl)-triazine, and 1,3-dimethyl-2,6-diketo-4-(p-dimethylamino-styryl)-tetrahydro-symmetrical triazine were synthesized. The hydrogens of the methyl group in methyl triazine

Card 2/3

Investigation of the Degree of Activity of the Methyl Group in the Derivatives of the Symmetrical Methyl Triazine. I. Condensation With Aldehydes

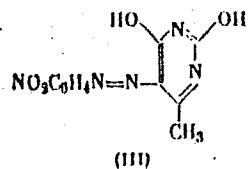
SOV/79-29-9-44/76
derivatives are - under the same conditions - more mobile than in the corresponding methylpyrimidine derivatives. Table 1 gives the condensations of the 4-methyl triazine derivatives with p-dimethylamino benzaldehyde. Table 2 compares the activities of the methyl derivatives of symmetrical triazine with those of pyrimidine. There are 2 tables and 12 references, 2 of which are Soviet.

ASSOCIATION: 1-y Leningradskiy meditsinskiy institut (Leningrad First Medical Institute)

SUBMITTED: July 5, 1958

Card 3/3

5.3610

73278
SOV/79-30-3-32/69**AUTHORS:** Karlinskaya, P. S., Khromov-Borisov, N. V.**TITLE:** Synthesis and Conversions of Pyrimidine Derivatives.
X. Activity of Methyl Groups in 4-Methyluracil
Derivatives**PERIODICAL:** Zhurnal obshchey khimii, 1960, Vol 30, Nr 3,
pp 899-902 (USSR)**ABSTRACT:** The reaction of p-nitrodiazobenzene with 4-methyluracil,
as well as with 4-methyl-5-(p-nitrobenzazo)-uracil
in an alkaline medium yields only one azo dye, 4-methyl-5-
-iodouracil (III), mp 208-210°.

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Synthesis and Conversions of Pyrimidine
Derivatives. X.

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SOV/79-30-3-32/69

Compound (III) is formed from 4-methyluracil and 4-methyl-5-(p-nitrobenzazo)-uracil by elimination of a hydroxymethyl group by the reagent (p-nitrodiazobenzene) or by solvent. The reaction of iodine with 4-methyluracil, or with 4-methyl-5-hydroxymethyluracil in alkaline solution yields the same compound, 4-methyl-5-iodouracil, mp 238-240°. 4-Methyl-5-iodouracil and 4-methyl-5-bromouracil do not react with p-nitrodiazobenzene. There are 4 references, 3 Soviet, 1 German.

SUBMITTED: March 25, 1959

Card 2/2

5.3010

70279
SOV/(9-30-3-53/6)

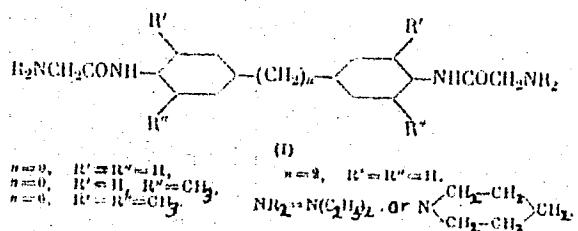
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AUTHORS: Kudryashova, N. I., Khromov-Borisov, N. V.

TITLE: BIS-Dialkylaminoacetyl Derivatives of Benzidine and 4,4'-Diaminodiphenylethane Series

PERIODICAL: Zhurnal obshchey khimii, 1960, Vol 30, No 3,
pp 902-906 (USSR)

ABSTRACT: Several new anesthetic compounds of the general formula (I) were synthesized.



The following starting amines were used: benzidine, o-toluidine, 3,3',5,5'-tetramethylbenzidine and 4,4'-diaminodiphenylethane. 3,3',5,5'-tetramethyl

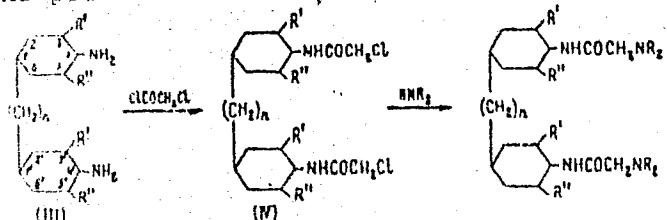
Card 1 / 4

Bis-Dialkylaminooacetyl Derivatives of
Benzidine and 4,4'-Diaminodiphenylethane
Series

78279
SOV/79-30-3-33/69

4,4'-diaminodiphenylethane. 3,3',5,5'-tetramethyl-
-4,4'-diaminobiphenyl was prepared for the first time
by methylation of hydrochloride of o-toluidine with
methyl alcohol in sealed tube at 300-310°.

4,4'-Diaminodiphenylethane was synthesized by
reduction of dinitrodibenzyl with hydrazine hydrate
in the presence of Raney nickel in alcohol.



The synthesized compounds are listed in Table 1. The pharmacological investigation of the synthesized compounds was carried out by P. Ye. Motivilov and O. G. Plets. There are 2 tables; 7 references,

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(4)	R'	R''	NR ₂	(2)	(4)	C	H	N	C	Cl	U	N	
1	H	H	NC ₂ H ₅	135-136°	70.05	8.30	13.54	70.21	8.35	—	14.04		
2	H	H	NC ₂ H ₁₀	210-212	7.38	7.63	12.80	71.85	7.50	—	12.86		
3	H	H	NC ₂ H ₁₂	144-165	71.20	8.75	12.91	71.15	8.73	—	12.77		
4	COOCH ₃	CH ₃	NC ₂ H ₁₅	202-204	72.68	8.35	12.97	72.50	8.28	—	12.17		
5	COOCH ₃	CH ₃	NC ₂ H ₁₇	220.5-222	74.49	9.00	12.45	72.46	9.07	—	12.01		
6	COOCH ₃	CH ₃	NC ₂ H ₁₉	205-207	73.30	5.54	11.50	73.43	5.53	—	11.42		
7	COOCH ₃	CH ₃	NC ₂ H ₂₁	146-148	71.23	8.71	12.58	71.19	8.75	—	12.57		
8	COOCH ₃	H	NC ₂ H ₃₂	164-165	72.66	8.20	12.21	72.69	8.18	—	12.11		

(4)	R'	R''	NR ₂	(2)	(4)	C	H	N	C	Cl	U	N		(5)	
1	H	H	NC ₂ H ₅	11.43	11.57	11.58	14.66	21.8-250°	—	—	—	—		8.15	S.07
2	H	H	NC ₂ H ₁₀	11.06	11.71	11.04	13.91	21.5-247 (para.I)	—	—	—	—		7.65	7.89
3	H	H	NC ₂ H ₁₂	10.72	—	10.35	—	21.8 (para.I)	—	—	—	—		7.73	7.75
4	H	H	NC ₂ H ₁₅	10.38	—	10.46	—	23.1-237	—	—	—	—		7.51	7.56
5	H	H	NC ₂ H ₁₇	—	—	—	—	23.1-237 (para.I)	—	—	—	—		7.54	7.47
6	H	H	NC ₂ H ₁₉	—	—	—	—	23.1-237 (para.I)	—	—	—	—		7.38	7.31
7	H	H	NC ₂ H ₂₁	—	—	—	—	26.1-27.0 (para.I)	—	—	—	—		7.50	7.51
8	H	H	NC ₂ H ₃₂	10.38	—	10.05	—	21.5-22.5 (para.I)	—	—	—	—		7.56	7.51

(Key to Table 1 on Card 4/4)

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SOV/79-30-3-33/69

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Bis-Dialkylaminoacetyl Derivatives of
Benzidine and 4,4'-Diaminodiphenylethane
Series

78279

SOV/79-30-3-33/69

Key to Table 1. (1) Nr; (2) mp; (3) base; (4) found;
(5) calculated (%); (6) mp; (7) bis-(acid chloride)
of; (8) found (%); (9) calculated (%); (10) bis-methiodide
of; (11) mp; (12) found; (13) calculated.

3 Soviet, 2 U.S., 1 French, 1 German. The 2 U.S.
references are: Carlin, R. B., J. Am. Chem. Soc.,
67, 928 (1945); Carlin, R. B., Forshey, W. O., J.
Am. Chem. Soc., 72, 793 (1950).

ASSOCIATION: Institute of Experimental Medicine of the Academy of
Medical Sciences of the USSR (Institut eksperimental'noy
meditsiny Akademii meditsinskikh nauk SSSR)

SUBMITTED: April 20, 1959

Card 4/4

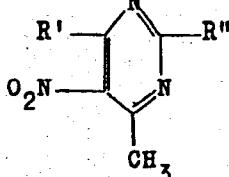
S/079/60/030/05/18/074
B005/B126

AUTHORS: Karlinskaya, R. S., Khromov-Borisov, N. V.

TITLE: Synthesis and Conversions of Pyrimidine Derivatives.
XI. Analysis of the Activity of the Methyl Group in
Derivatives of 4-Methyl-5-nitropyrimidine

PERIODICAL: Zhurnal obshchey khimii, 1960, Vol. 30, No. 5, pp. 1485-1491

TEXT: The authors examined the reactivity of the methyl group in six derivatives of 4-methyl-5-nitropyrimidine, which contained electron repelling groups (OH, NH₂) in positions 2 and 6. The following compounds of the general structure



were analyzed: a) R' = R'' = OH; b) R' = R'' = NH₂; c) R' = NH₂, R'' = OH;

Card 1/3

Synthesis and Conversions of Pyrimidine
Derivatives. XI. Analysis of the Activity of
the Methyl Group in Derivatives of
4-Methyl-5-nitropyrimidine

S/079/60/030/05/18/074
B005/B126

the monoacetyl derivative is obtained from compound (II) under the same conditions. All the conversions carried out are fully described in the extensive experimental part. There are 7 references: 2 Soviet, 2 American, —
2 German, and 1 Japanese.

SUBMITTED: May 4, 1959

Card 3/3

KHROMOV-BORISOV, N.V.; KISAREVA, Ye.V.

Degree of reactivity of the methyl group in derivatives of
symmetrical methyltriazine. Part 2: Coupling with diazo com-
pounds. Zhur. ob. khim. 30 no.6:1791-1798 Je '60.
(MIRA 13:6)

1. l-y Leningradskiy meditsinskiy institut.
(Triazine) (Methyl group) (Diazocompounds)

TORF, S.F.; KHROMOV-BORISOV, N.V.

Studies in the series of alkylated aromatic amines. Part 1:
Methylated derivatives of phenylenediamines. Zhur.ob.khim.
30 no.6:1798-1805 Je '60. (MIREA 13:6)

1. Institut eksperimental'noy meditsiny Akademii meditsinskikh
nauk SSSR, Leningrad.
(Phenylenediamine)

ZAKHAROVA, N.A.; KEROMOV-BORISOV, N.V.

Studies in the series of alkylated aromatic amines. Part 2:
Interaction between unsymmetrical ditertiary n-phenylenediamines
and alkyl iodides. Zhur.ob.khim. 30 no.6:1805-1814 Je '60.
(MIRA 13:6)

1. Institut eksperimental'noy meditsiny Akademii meditsinskikh
nauk SSSR.
(Phenylenediamine) (Iodide)

KHROMOV-BORISOV, N.V.; YANOVITSKAYA, A.M.; YEREMICHEVA, K.A.

Synthesis of some acyl derivatives of phenothiazine. Part 3:
Derivatives of nicotinic acid. Zhur. ob. khim. 30 no.11:3569-
3572 N°60. (MIRA 13:11)

1. 1-y Leningradskiy meditsinskiy institut.
(Nicotinic acid)

KUDRYASHOVA, N.I.; CHRMOV-BORISOV, N.V.

Synthesis and separation of stereoisomers of asymmetrically built compounds having local anesthetic properties. Zhur. ob. khim. 30 no.12:4035-4038 D '60. (MIRA 13:12)

I. Institut eksperimental'noy meditainy Akademii meditsinskikh nauk SSSR, Leningrad.

(Anesthetics)

TORF, S.F.; KHROMOV-BORISOV, N.V.

Synthesis of sigetin (dipotassium salt of p,p'-disulfo-meso 3,4-diphenylhexane). Med. prom. 15 no.3:13-14 Mr '61. (MIRA 14:5)

1. Institut eksperimental'nyy meditsiny AMN SSSR.
(HEXANE)

TORF, S.F.; KHROMOV-BORISOV, N.V.

Bis-trimethylammonium and bis-dimethylsulfone compounds of
the diphenylethane series as curarelike substances. Med. prom.
15 no.6:18-22 Je '61. (MIRA 15:3)

1. Institut eksperimental'noy meditsiny AMN SSSR.
(CURARELIKE SUBSTANCES)

TORF, S.F.; KHROMOV-BORISOV, N.V.; INDENBOM, M.L.

Methyldiazil, methyldiphacil and their quaternary ammonium salts.
Med. prom. 15 no.12:19-25 D '61. (MIRA 15:2)

1. Institut eksperimental'noy meditsiny AMN SSSR.
(ANTISPASMODICS)

LEGOSTEV, B.I.; KUDRYASHOVA, N.I.; KHROMOV-BORISOV, N.V.

Significance of the nitro group in the development of pharmacological effects of certain arylamides in substituted aminoacetic acids.
Farm.i toks. 24 no.1:40-44 Ja-F '61. (MIRA 14:5)

1. Kafedra farmakologii (zav. - doktor meditsinskikh nauk A.V. Val'dman) I Leningradskogo meditsinskogo instituta imeni akad. I.P. Pavlova.

(GLYCINE)

(AMIDES)

KHROMOV-BORISOV, N.V. i. IVANOVA, V.A.

Substituted diacetyl derivatives of 1,4- and 1,5-naphthylenediamines,
containing quaternary ammonium groups in the acetyl groups. Zhur.ob.
khim. 30 no.10:3196-3202 0 '61. (MIRA 14:4)

1. L-y Leningradskiy meditsinskiy institut.
(Naphthalenediamine)

KUDRYASHOVA, N.I.; KHROMOV-BORISOV, N.V.; MOSHKOVSKAYA, I.P.

Derivatives of diacetyl-*m*-phenylenediamine containing quaternary ammonium groups in the acetyl radicals. Zhur.ob.khim. 30 no.10:
3343-3346 O '61. (MIRA 14:4)

1. Institut eksperimental'noy meditsiny Akademii meditsinskikh nauk SSSR.

(Phenylenediamine)

VINOGRADOVA, N.D.; KHROMOV-BORISOV, N.V.

Derivatives of imidazoledicarboxylic acids. Part 1: Alkylated amides of imidazole-4, 5-dicarboxylic acid. Zhur. ob. khim. 31 no.5:1466-1470 My '61. (MIRA 14:5)

1. Institut eksperimental'noy meditsiny Akademii meditsinskikh nauk SSSR.

(Imidazoledicarboxylic acid)

VINOGRADOVA, N.B.; KHROMOV-BORISOV, N.V.; KOZHEVNIKOV, S.P.; LIVSHITS, I.M.

Derivatives of imidazoledicarboxylic acids. Part 2: Dimethylidiamides
of 1-alkylimidazole-4, 5-dicarboxylic acids. Zhur. ob. khim. 31 no 5:
1471-1476 My '61. (MIRA 14:5)

1. Institut eksperimental'noy meditsiny AN SSSR.
(Imidazoledicarboxylic acid)

VINOGRADOVA, N.D.; KHROMOV- BORISOV, N.V.

Derivatives of imidazoledicarboxylic acids. Part 3: Dimethylamides
of 2-alkylimidazole-4, 5-dicarboxylic acids. Zhur.ob.khim. 31 no.5:
1476-1479 My '61. (MIRA 14:5)

1. Leningradskiy institut eksperimental'noy meditsiny Akademii
meditsinskikh nauk SSSR.

(Imidazoledicarboxylic acid)

TORF, S.F.; KHROMOV-BORISOV, N.V.

Fluorine- and sulfur-containing derivatives of meso-3,4-diphenylhexane. Zhur. ob. khim. 31 no. 7:2102-2106 Jl '61.

1. Institut eksperimental'noy meditsiny Akademii meditsinskikh nauk SSSR.

(MIRA 14:7)

(Hexane)

KHROMOV-BORISOV, N.V.; GAVRILOVA, L.A.

Pyrylium compounds having active methyl groups. Part 1: Reactions of 2-methyl-4,6-diphenyl pyrylium ferrichloride and 1,2-dimethyl-4,6-diphenyl pyridinium iodide with benzaldehyde and p-dimethylaminobenzaldehyde. Zhur. ob. khim. 31 no. 7:2192-2198 J1 '61. (MIRA 14:7)

1. Institut eksperimental'noy meditsiny Akademii meditsinskikh nauk SSSR.

(Pyrylium compounds) (Pyridinium compounds)
(Benzaldehyde)

KUDRYASHOVA, N.I.; KHROMOV-BORISOV, N.V.

Alkylated amines of the aromatic series. Part 3: N,N-dimethyl
-2-m-xylidine. Zhur. ob. khim. 31 no.7:2263-2270 Jl '61. (MIRA 14:7)

1. Institut eksperimental'noy meditsiny Akademii meditsinskikh
nauk SSSR.
(Xylidine) (Azo dyes)

KHROMOV-BORISOV, N.V.; ZAKHAROVA, N.A.

Alkylated amines of the aromatic series. Part 4: Role played by the steric factor in quaternization reactions of dimethyl- and diethylaniline. Zhur. ob. khim. 31 no. 7:2270-2274 Jl '61.
(MIRA 14:7)

1. Institut eksperimental'noy meditsiny Akademii meditsinskikh nauk SSSR.

(Aniline)

ZAKHAROVA, N.A.; KHROMOV-BORISOV, N.V.

Alkylated amines of the aromatic series. Part 5: Production
of primary-quaternary derivatives of p-phenylenediamine.
Zhur. ob. khim. 31 no.8:2604-2609 Ag '61. (MIRA 14:8)

1. Institut eksperimental'noy meditsiny Akademii meditsinskikh
nauk SSSR.
(Phenylenediamine)

KHROMOV-BORISOV, N.V.; KOZHEVNIKOV, S.P.

Synthesis of asymmetric ion exchange resins based on L-tyrosine.
Zhur.ob.khim. 31 no.9:2926-2930 S '61. (MIRA 14:9)

1. Institut eksperimental'noy meditsiny Akademii meditsinskikh
nauk SSSR.
(Ion exchange resins) (Tyrosine)

KHROMOV-BORISOV, N.V.; GAVRILOVA, L.A.

Pyrlyium compounds having active methyl groups. Part 2: Reaction
of 2-methyl-4,6-diphenylpyrlyium chloride with diazo compounds.
Zhur. ob. khim. 32 no.1:86-89 Ja '62. (MIRA 15:2)

1. Institut eksperimental'noy meditsiny AMN SSSR.
(Pyrlyium compounds) (Diazc compounds)

KUDRYASHOVA, N.I.; KHROMOV-BORISOV, N.V.

Preparation of chloroacetyl and diethylaminoacetyl derivatives of optically active amines. Zhur.ob.khim. 32 no.4:1182-1187 Ap '62. (MIRA 15:4)

1. Institut eksperimental'noy meditsiny Akademii meditsinskikh nauk SSSR, Leningrad.

(Amines)

TORF, S.F.; KUDRYASHOVA, N.I.; KHROMOV-BORISOV, N.V.; MIKHAYLOVA, T.A.

Synthesis of some derivatives of pyrazole containing the diethyl-aminoacetyl amine or trimethyl ammonium group in the position₄.

Zhur.ob.khim. 32 no.6:1740-1746 Je '62. (MIRA 15:6)

1. Institut eksperimental'noy meditsiny Akademii meditsinskikh nauk
SSSR, Leningrad.

(Pyrazole)

TORF, S.F.; KHROMOV-BORISOV, N.V.

Some derivatives of 1,4-bis (dimethylamino)- and 1,4-bis (diethylamino)-
2,3-dihydroxibutane. Zhur. ob. khim. 32 no.6:1838-1846 Je '62.
(MIRA 15:6)

1. Leningradskiy institut eksperimental'noy meditsiny Akademii
meditsinskikh nauk SSSR.
(Butane) (Chemistry, Organic—Synthesis)

KARLINSKAYA, R.S.; KEROMOV-BORISOV, N.V.

Syntheses and conversions of pyrimidine derivatives. Part 12: Activity
of methyl groups in derivatives of 4-methyloxa- and thiadiazolopyrimidine.
Zhur. ob. khim., 32 no. 6:1847-1857 Je '62. (MIRA 15:6)

1. Insititut onkologii Akademii meditsinskikh nauk SSSR.
(Pyrimidine) (Methyl group)

KARLINSKAYA, R.S.; KHROMOV-BORISOV, N.V.

Syntheses and conversions of pyrimidine derivatives. Part 13: Activity
of methyl groups in derivatives of 4-methyl-(1',2',3'-triazolo-
(5:6-4':5')-pyrimidine. Zhur. ob. khim. 32 no.6:1858-1864 Je '62.
(MIRA 15:6)

1. Institut onkologii Akademii meditsinskikh nauk SSSR.
(Triazolopyrimidine) (Methyl group)

KHROMOV-BORISOV, N.V.; GAVRILOVA, L.A.

Pyrylium compounds having active methyl groups. Part 3:
Structure of pyrylium azo compounds. Zhur. ob. khim. 32
no.10:3211-3214 0 '62. (MIRA 15:11)

1. Institut eksperimental'noy meditsiny AMN SSSR.
(Azo compounds) (Pyrylium compounds)

KHROMOV-BORISOV, N.V.; KUDRYASHOVA, N.I.; BOBROVA, M.N.

Synthesis of diethylglycine esters of methylbenzoylcarbinol
and phenylacetylcarbinol. Zhur.ob.khim. 32 no.10:3207-3211
0 '62. (MIRA 15:11)

1. Institut eksperimental'noy meditsiny AMN SSSR.
(Glycine) (Esters)

KUDRYASHOVA, N. I.; KHROMOV-BORISOV, N. V.; BOBROVA, M. N.;
MIKHAYLOVA, T. A.

Interaction of 1,3,5-N,N-pentaalkyl-4-aminopyrazoles with
alkylating agents. Zhur. ob. khim. 33 no.1:173-179 '63.
(MIRA 16:1)

1. Institut eksperimental'noy meditsiny AMN SSSR, Leningrad.

(Pyrazole) (Alkylation)

KHROMOV-BORISOV, N.V.; YEREMICHEVA, K.A.

Bisquaternary ammonium compounds of some derivatives of
1,6-hexamethylene-bisaminoacetic acid. Zhur.ob.khim. 33
no.2:475-479 F '63' (MIRA 16:2)

1. Pervyy Leningradskiy meditsinskiy institut imeni I.P.Pavlova.
(Ammonium compounds) (Glycine)

MIKHEL'SON, M.Ya., doktor med.nauk; KHROMOV-BORISOV, N.V.

Chemical mechanism of the physiological action of acetylcholine as a
base for the search of new therapeutic substances. Zhur. VKHO 9 no.4:
418-432 '64. (MIRA 17:10)

1. Chlen-korrespondent AMN SSSR (for Khromov-Borisov).

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000722410005-0

KARLINSKAYA, R.S.; KHROMOV-BORISOV, N.V.

Pyrimidine derivatives in oncology and in other branches of medicine.
Vop.med.khim. 10 no.2:220-221 Mr-Ap '64. (MZRA 18:1)

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000722410005-0"

MIKHAYLOVA, T.A.; KHROMOV-BORISOV, N.V.

Quantitative determination of amino alcohol esters. Zhur. anal. khim., 19 no. 5:648-650 '64. (MIRA 17:8)

1. Institut eksperimental'noy meditsiny AMN SSSR, Leningrad.

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000722410005-0

KHEYFETS, G.M.; KIROMOV-BORISOV, N.V.

Structure of 4,6-dihydroxypyrimidine and its 5-methyl analog.
Zhur. ob. khim. 34 no.9:3134-3135 S '64.

(MIRA 17:11)

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000722410005-0"

KARLINSKAYA, R.S.; KHROMOV-BORISOV, N.V.; IVANOVA, V.A.

Syntheses and transformations of pyrimidine derivatives. Part
15: Activation of methyl groups in some hydroxy derivatives
of pyrimidine. Zhur. ob. khim. 34 no.11:3734-3737 N '64
(MIRA 18:1)

1. Institut onkologii AMN SSSR.

KHEYFETS, G.M.; KHROMOV-BORISOV, N.V.

New method of synthesizing 5-chloro-4,6-dihydroxypyrimidine.
Zhur. ob. khim. 34 no.11:3851-3852 N '64 (MIRA 18:1)

1. 1-y Leningardskiy meditsinskiy institut imeni I.P.Pavlova.

KHEYFETS, G.M.; KHROMOV-BORISOV, N.V.

Synthesis of N-methyl-4-oxypyrimidin-6-one. Zhur. org. khim. 1
no.6:1173 Je '65. (MIRA 18:7)

1. 11-y Leningradskiy meditsinskiy institut imeni Pavlova.

SERZHANINA, V.A.; KHROMOV-BORISOV, N.V.; KARLINSKAYA, R.S.

Synthesis and conversions of pyrimidine derivatives. Part 16:
Study of the activity of methyl groups in 2-methylquinazoline
derivatives. Zhur. org. khim. 1 no.7:1303-1306 Jl '65.

(MIRA 18:11)

1. Institut onkologii AMN SSSR, Leningrad.

ZAKHAROVA, N.A.; KHROMOV-BORISOV, N.V.; KAPLAN, S.Z.; ZVONTSOVA, A.S.

Morpholine derivatives. Part 3; Esters and oxides of the
morpholine series containing a quaternary carbon atom.
Zhur. org. khim. 1 no.8:1489-1494 Ag '65. (MIRA 18:11)

1. Institut eksperimental'noy meditsiny AMN SSSR, Leningrad.

KHROMOV-BORISOV, N.V.; YEREMICHEVA, K.A.

Introduction of phenyl, nitrophenyl, and dinitrophenyl radicals
into 1,6-hexamethylene bis-trimethyl ammonium. Zhur. org. khim.
i n. 11:2002-2004 N '65. (MIRA 18:12)

1. 1-y Leningradskiy meditsinskiy institut imeni akad. I.P.
Pavlova. Submitted December 18, 1964.

2025 RELEASE UNDER E.O. 14176

Mil'chikova, T.A.; Khromov-Borisov, N.V.

Determination of nitrogen in organic combustible organic compounds

Zhurnal analiticheskoy khimii, v. 20, no. 3, 1965, 359-363

Organic nitrogen compounds. Determination of nitrogen by elemental analysis, gasometric

method, Dumas method

The object of this work was to develop a simple, rapid, reliable method for determining the

nitrogen content in organic combustible organic compounds.

Copying AVM unclassified

Card 1/2

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000722410005-0

1488 415008690

ASSOCIATION: Institut eksperimental'noy meditsiny AMN SSSR, Leningrad (Institute of Experimental Medicine, AMN SSSR)

SUBMITTED: 13Feb64

ENCL: 00

SUB CODE: OC

NAME & NOV: 001

OTHER: 007

Card 2/2

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000722410005-0"

KHEYFETS, O.M.; KHROMOV-BORISOV, N.V.; KOL'TSOV, A.I.

Structure of 4,6-dihydroxypyrimidine and its N-methylated derivatives. Dokl. AN SSSR 166 no. 3:635-638 Ja '66.

1. 1-y Leningradskiy meditsinskiy institut im. I.P.Pavlova,
Submitted May 20, 1965.

(MIRA 19:1)

ACC NR: AP7001402

(A, N)

SOURCE CODE: UR/0413/66/000/021/0079/0079

INVENTOR: Kaplan, S. Z.; Yefimova, L. F.; Zvontsova, A. S.; Zakharova, N. A.;
Khromov-Borisov, N. V.

ORG: none

TITLE: A method for increasing the antioxidative stability of Industrial 12
petroleum lubricating oil. Class 23, No. 187914

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 21, 1966, 79

TOPIC TAGS: lubricant, lubricating oil, petroleum lubricating oil, hydrocarbon
lubricant, lubricant additive, antioxidant additive, oxidation inhibition, morpholine,
morpholine derivative, methylmorpholine derivative, propandiol derivative,
morpholinomethyl propandiol derivativeABSTRACT: An Author Certificate has been issued for a method of increasing the
antioxidative stability of Industrial-12 petroleum lubricating oil by introducing a
methylmorpholine derivative as an antioxidant additive. 2,2-Bis(morpholinomethyl)-1,
2-propandiol was used to widen the selection of additives. [BN]

SUB CODE: 07, 21/ SUBM DATE: 30Jun65/ ATD PRESS: 5109

Card 1/1

UDC: 665.5:621.892.86

ACC NR: AP6034261

(N)

SOURCE CODE: UR/0390/66/029/005/0582/0588

AUTHOR: Danilov, A. F.; Indenbom, M. L.; Mikhel'son, M. Ya.; Khromov-Borisov, N. V.

ORG: Institute of Experimental Medicine, AMN SSSR (Institut eksperimental'noy meditsiny AMN SSSR); Institute of Evolutionary Physiology and Biochemistry im. I. M. Sechenova, AN SSSR, Leningrad (Institut evolyutsionnoy fiziologii i biokhimii AN SSSR)

TITLE: Curareform activity of some new bis-quaternary compounds

SOURCE: Farmakologiya i toksikologiya, v. 29, no. 5, 1966, 582-588

TOPIC TAGS: drug effect, curareform activity, bis quaternary compound, depolarization effect, cholinoreceptor, nervous system drug

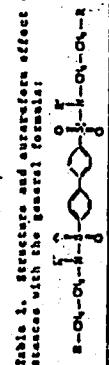
ABSTRACT: Highly active curareform compounds may have 10 or 16 atoms between the quaternary nitrogens. In a series of polymethylene-bis-trimethylammonium compounds two peaks of curareform activity were observed: with 9 and 10, and 14-18 methyl groups between the nitrogens. A series of compounds whose structures appear in the table was synthesized and tested for their ability to block neuromuscular conduction. The curareform action of HB-72 is the depolarization type and is reversible by a nucleophilic agent. Successive replacement of methyl with

Card 1/3

UDC: 615.785.3

ACC NR: AP6034261

Table 1. Structure and aurasome effect of substances with the general formula:



Compounds containing quaternary nitrogen are hydrochloric acid salts, compounds with tertiary nitrogens.

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ACC NR: AP6034261

ethyl radicals at quaternary nitrogen atoms reduces activity. Changing the position of SO₂ and NH groups results in loss of activity (change of HB-72 to HB 153). Experimental results illustrated the importance of an interquaternary distance of 16 atoms and the presence of the sulfamide groups for the reaction of these substances with cholinoreceptors. Orig. art. has: 2 figures and 1 table. [W.A. 50]

SUB CODE: 06/ SUBM DATE: 12May66/ ORIG REF: 004/ OTH REF: 017

Card 3/3

IVANYUKOV, M.V., zasluzhennyj vrach RSFSR; glavnyj vrach; KHROMOVA, A.I., glavnyj vrach.

Defects in the architectural planning of hospital buildings. Gor.khoz.Mosk.
27 no.11:5-6 N '53. (MIRA 6:11)

1. 4-y Gorodskoy klinicheskoy bol'nitsy (for Ivanyukov). 2. 2-y Gorodskoy klinicheskoy bol'nitsy (for Khromova). (Moscow--Hospitals)

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000722410005-0

OPARIN, Ye.L.; KHRONOVA, A.P.

Specialists joined the brigades. Mashinostroitel' no.6:2-3
Je '64. (MIRA 17:8)

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000722410005-0"

TAMARINA, N.A.; KHROMOVA, L.A.; IOFFE, I.D.

Effect of the temperature on DDT-sensitivity of certain types of
synanthropic flies. Med.paraz.i paraz.bol. 29 no.6:723-739 '60.
(MIRA 14:2)

1. Iz biologo-pochvennogo fakul'teta Moskovskogo gosudarstvennogo
universiteta.

(FLIES) (DDT)

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000722410005-0

IVASHKIN, V.M.; KHROMOVA, L.A.

Intermediate hosts of *Gongylonema pulchrum* Molin, 1857 in
Uzbekistan. Trudy Gel'm.lab. 11:102-104 '61. (MIRA 15:12)
(*Gongylonema*--Host animals)

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000722410005-0"

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000722410005-0

IVASHKIN, V.M.; KHROMOVA, L.A.

Epizootiology of habronemiases of domestic solidungulates. Trudy
Gel'm. lab. 11:105-108 '61. (MIRA 15:12)
(*Habronema muscae*) (Parasites—Horses)
(Parasites—Asses and mules)

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000722410005-0"

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000722410005-0

IVASHKIN, V.M.; TIMOFYEVA, T.N.; KHROMOVA, L.A.

Causative agents of stephanofilariasis in cattle. Trudy Gel'm.
lab. 11:109-114 '61. (MIRA 15:12)
(Parasites—Cattle) (Stephanofilaria)

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000722410005-0"

IVASHKIN, V.M., doktor veter. nauk; KHRONOVA, L.A., mladshiy nauchnyy
sotrudnik; SHMITOVA, G.Ya., mladshiy nauchnyy sotrudnik

Stephanofilariasis in cattle. Veterinariia 40 no.8:36-39 Ag '63.
(MIRA 17:10)

1. Gel'mintologicheskaya laboratoriya AN SSSR.

IVASHKIN, V.M.; KHROMOVA, L.A.; SHMYTOVA, G.Ya.

Deciphering the developmental cycle of the nematode Stephano-filaria stilesi Chirwood, 1934, a parasite of the skin of ruminants. Dokl. AN SSSR 153 no.5:1223-1224 D '63.

(MIRA 17:1)

1. Gel'mintologicheskaya laboratoriya AN SSSR. Predstavлено
академиком К.И. Скрябиным.

IVASHKIN, V.M.; KHROMOVA, L.A.

Biological characteristics of nematodes of the suborder Camallanata.
Chitwood, 1936. Trudy Gel'm. lab. 14:98-104 '64.

(MIRA 17:10)

IVASHKIN, V.M.; KHROMOVA, L.A.; SHMYTOVA, G. Ye.

Significance of biological characters in the taxonomy of some
Filarcioidea. Trudy Gel'm. lab. 15:79-81 '65 (MIRA 19:1)

FATEYEV, K.Ya.; KHROMOVA, M.V.; TUZOVA, L.S.

Variability of internal organs in the silver fox (*Vulpes fulvus*
Decm.). Zool. zhur. no.7:1090-1098 J1 '61. (MIRA 14:7)

1. Department of Zoology, State Pedagogical Institute of Kostroma.
(Silver fox) (Viscera)

Khromova, N. I.
Chemical Abst.
Vol. 48
Apr. 10, 1954
Biological Chemistry

2
7 Variability of scarlatina streptococci in the infected body.

N. I. Khromova (Inst. Epidemiol. and Microbiol., Cork).
~~Show 25-69880~~ *Epidemiol. Immunobiol.* 1953, No. 1,
65-7.—Convalescence in scarlatina causes the streptococcus
to lose its antigenic specificity, weakening the character-
istic aspects of virulence. These changes involve antigen
structure and the hemolytic, fibrinolytic, and hyaluronidase
activities. Julian P. Smith

VINAROV, I.V.; KHRONOVA, N.P.

Method for the production of reaction-pure hafnium salts. Khim.
prom. [Ukr.] no.145-46'63
(MIRA 17:7)

1. Institut obshchey i neorganicheskoy khimii AN UkrSSR,
laboratorii v Odesse.

VINAROV, I.V.; KHRONOVA, N.P.

Methods of preparation of chemically pure hafnium salts.
Khim. prom. [Ukr.] no.2:32-34. Ap-Je '63. (MIRA 16:8)

1. Institut obshchey i neorganicheskoy khimii AN UkrSSR
(laboratori v g. Odesse).

VINAROV, I.V.; KHROMOVA, N.P.

Electric conductance and cryoscopy of hafnium sulfate solutions.
Zhur. neorg. khim. 8 no.10:2341-2345 O '63. (MIRA 16:10)

1. Institut obshchey i neorganicheskoy khimii AN UkrSSR, Odessa.
(Hafnium sulfate—Electric properties)
(Cryoscopy)

L 2012-66 ERT(m)/ETC/EWG(m)/EWP(j)/T/EWP(t)/EWP(b) IJP(c) DS/JD/RM

ACCESSION NR: AP5023966

UR/0073/65/031/009/0898/0907

661.183.123

41

40

B

AUTHOR: Khromova, N. P.; Legenchenko, I. A.

TITLE: Sorption of ethylenediaminetetraaceto-complexes of rare earth elements by anion exchange resins. I. Kinetics of exchange of a lanthanum complex with chlorine anion over AV-17 anion exchange resin

SOURCE: Ukrainskiy khimicheskiy zhurnal, v. 31, no. 9, 1965, 898-907

TOPIC TAGS: ion exchange resin, anionite, lanthanum compound, complex molecule, exchange reaction

ABSTRACT: The kinetics of exchange of lanthanum complexes with chlorine ion over AV-17 resin was studied in detail in order to develop a method of separation of rare earth elements. The starting lanthanum complex was prepared by exchange for lanthanum of a solution of the tetra-substituted sodium salt of ethylenediamine-tetraacetic acid using a lanthanum form of KU-2 cation exchange resin. The exchange duration over AV-17 resin varied from 50 to 400 min, the agitation was varied from 50 to 400 rpm, the resin particle size varied from 0.25 to 1.00-2.00 mm, and the temperature varied within 15-45°C. It was found that except for the ini-

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L 2012-66

ACCESSION NR: AP5023966

tial period of exchange over coarse resin particles, the rate of anion exchange is limited by external mass transfer. In the case of exchange over coarse resin particles (1.00-2.00 mm in diameter) the process is limited by internal mass-transfer. In the case of operation in the internal mass-transfer region, the overall exchange kinetics is strictly diffusion controlled. Orig. art. has: 7 figures, 4 tables.

ASSOCIATION: Institut obshchey i neorganicheskoy khimii AN UkrSSR, laboratoriya v Odesse (Institute of General and Inorganic Chemistry AN UkrSSR, Odessa Laboratory)

SUBMITTED: 13Apr64

ENCL: 00

SUB CODE: IC, GC, MT

NO REF Sov: 006

OTHER: 008

Card 2/2

L 4922-66 EWP(e)/EWT(m)/EWP(i)/EWP(t)/EWP(b) IJP(c) JD/JG/WH

ACC NR: AP5026585

SOURCE CODE: UR/0073/65/031/010/1107/1109

AUTHOR: Vinarov, I. V.; Kovaleva, Ye. I.; Khromova, N. P.

23
Q3

ORG: Odessa Laboratory, Institute of General and Inorganic Chemistry AN UkrSSR (Institut obshchey i neorganicheskoy khimii AN UkrSSR, Laboratoriya v Odesse)

TITLE: Preparation of hafnium tetrabromide and tetraiodide

SOURCE: Ukrainskiy khimicheskiy zhurnal, v. 31, no. 10, 1965, 1107-1109

TOPIC TAGS: hafnium compound, bromide, iodide

ABSTRACT: A new technique has been developed for preparing HfI_4 and $HfBr_4$ from the elements. The reaction vessel was made of molybdenum glass. All the operations (bromination, sublimation and condensation of the tetrabromide) were carried out in sealed glass vessels. $HfBr_4$ was obtained in 80-90% yield based on hafnium and 80-92% based on bromine, and contained the following impurities (in %): Fe 0.009; Ti 0.004; Al 0.012; Co 0.028; SiO_2 0.11. HfI_4 was obtained in 86.8% yield based on hafnium and 92% based on iodine, and contained the following impurities (in %): Fe 0.011; Ti 0.008; Al 0.012; Ca 0.03; SiO_2 0.2. Both products were thus of reagent-grade purity. Orig. art. has: 1 figure.

SUB CODE: GC / SUBM DATE: 11Jun64 / ORIG REF: 005 / OTH REF: 004

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UDC 661.883

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"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000722410005-0

KHROMOVA, N. S.

Khromova, N. S. -- "Effect of Fillers and Vulcanizing Agents on the Character of Substances Containing Hydrophilous Groups." Cand Tech Sci, Moscow Technological Inst of Light Industry, Moscow 1953. (Referativnyy Zhurnal--Khimiya, No 1, Jan 54)

So: SUM 168, 22 July 1954

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000722410005-0"

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CIA-RDP86-00513R000722410005-0

RECORDED, VS

carboxyl groups in the rubber during vulcanization.

(Op. 2000)

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CIA-RDP86-00513R000722410005-0

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Khromova, N.

USSR / Chemical Technology. Chemical Products and Their Application. Leather. Fur. Gelatin. Tanning Agents. Technical Proteins. I-31

Abs Jour : Ref Zhur ~ Khimiya, No 3, 1957, No 10521

Author : Pavlov, S.A., and Khromova, N.S.

Inst : Moscow Technical Institute of the Light Industry

Title : On the Theory of the Action of Fillers

Orig Pub : Nauch. tr. Mosk. tekhnol. in-ta, legkoy prem-sti, 1956,
No 6, 60-64'

Abstract : The determining factor in the strengthening action of fillers in high molecular compounds appears to be the molecular structure of these substances. The effect of various fillers on the properties of a hydrophilic product have been investigated. It has been established that the fillers tested can be arranged in the following order of increasing effectiveness in strengthening the hydrophilic

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Knyzma, red. Sergey, red.

PAVLOV, Sergey Aleksandrovich, prof.; AVILOV, Aleksey Alekseyevich,
kand.tekhn.nauk; BARABOYM, Nikolay Konstantinovich, prof.;
MONASTYRSKAYA, Mariya Solomonovna, dotsent; KHROMOVA, Nina
Sergeevna, dotsent; KUZ'MINSKIY, A.S., prof., retsenzent;
KIPNIS, B.Ya., inzh., retsenzent; MINAYEVA, T.M., red.;
GUSEVA, A.I., red.; MEDVDEV, L.Ya., tekhn.red.

[Technology of artificial leather] Tekhnologija iskusstvennoi
kozhi. Pod red. S.A.Pavlova. Moskva, Gos.nauchno-tekhn.izd-vo
lit-ry po legkoi promyshl., 1958. 654 p. (MIRA 12:4)
(Leather, Artificial)

ALEKSEYENKO, Vladimir Iosifovich; KOLESNIKOV, Vladimir Nikitich;
SAFRAY, Boris Aleksandrovich; KHROMOVA, Nina Sergeyevna;
PAVLOV, S.A., prof., nauchnyy red.; KATS, A.S., inzh.,
nauchnyy red.; GUSEVA, A.I., red.; BATYREVA, G.G., tekhn.
red.

[Design and planning of new and reorganized factories for
artificial (rubber-type) leather] Proektirovanie novykh i
rekonstruiruemykh predpriatiy iskusstvennoi kozhi (tipa
reziny). Moskva, Izd-vo nauchno-tekhn.lit-ry RSFSR, 1961.
102 p.

(MIRA 15:3)

(Rubber goods industry)

KHROMOVA, N.S., kand. tekhn. nauk, dotsent; MONASTYRSKAYA, M.S.,
kand. tekhn. nauk, dotsent

Manufacture of artificial leather in the Czechoslovak Socialist
Republic. Nauch. trudy MTILP 25:22-26 '62. (MIRA 16:8)

1. Kafedra tekhnologii iskusstvennoy kozhi i plenochnykh
materialov Moskovskogo tekhnologicheskogo instituta legkoy
promyshlennosti.

KHROMOVA, N.S., kand. tekhn. nauk, dotsent; ALEKSANDROVA, Ye.M., inzh.;
PAVLOV, S.A., doktor tekhn. nauk, prof.

Use of condensation resins for the production of porous colored
rubber. Nauch. trudy MTILP no.27:99-103 '63.

(MIRA 17:11)

1. Kafedra tekhnologii iskusstvennoy kozhi i plenochnykh pokrytiy
Moskovskogo tekhnologicheskogo instituta legkoy promyshlennosti.

L-5300-66 EWT(m)/EPF(c)/EWP(j)/T RM

ACC NR: AP5025022

SOURCE CODE: UR/0266/65/000/016/0081/0081

AUTHORS: Dobrynina, L. Ye.; Fil'chikov, A. S.; Khromova, N. S.; Pavlov, S. A.

ORG: none

TITLE: A method for plasticizing polyamide products. Class 39, No. 173932

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 16, 1965, 81

TOPIC TAGS: plastic, polyamide, formaldehyde

ABSTRACT: This Author Certificate presents a method for plasticizing polyamide products (such as films) with polyesters. To improve their quality, the products are treated with formaldehyde.

SUB CODE: MT,GC/ SUBM DATE: 02Jul64/ ORIG. REF: 000/ OTH REF: 000

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UDC: 678.675.674.002.2:547.281.1